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## X99-E WS

### CPU

Build in Intel® Socket 2011-v3 Core™ i7 Processors

Supports Intel® 22 nm CPU

Supports Intel® Turbo Boost Technology 2.0

\* The Intel® Turbo Boost Technology 2.0 support depends on the CPU types.

Intel® Socket 2011-v3 for Intel® Xeon® processor E5-1600 v3 product family

Intel® Socket 2011-v3 for Intel® Xeon® processor E5-2600 v3 product family

### Chipset

Intel® X99

### Memory

8 x DIMM, Max. 128GB, DDR4 3200(O.C.)/3000(O.C.)/2800(O.C.)  
/2666(O.C.)/2400(O.C.)/2133 MHz Non-ECC, Un-buffered Memory  
\*1

8 x DIMM, Max. 128GB, DDR4 2133/1866 MHz ECC, Un-buffered,  
Register Memory \*2

Quad Channel Memory Architecture

Supports Intel® Extreme Memory Profile (XMP)

\* Hyper DIMM support is subject to the physical characteristics of individual CPUs.

\* Refer to [www.asus.com](http://www.asus.com) for the Memory QVL (Qualified Vendors Lists).

**Multi-GPU Support** Supports NVIDIA® 4-Way SLI™ Technology  
Supports AMD 4-Way CrossFireX Technology

### Expansion Slots

#### 40-Lane CPU-

7 x PCIe 3.0/2.0 x16 (single x16 or dual x16/x16 or triple x16/x16/x16 or quad x16/x16/x16/x16 or seven x16/x8/x8/x8/x8/x8/x8)

#### 28-Lane CPU-

7 x PCIe 3.0/2.0 x16 (single x16 or dual x16/x16 or triple

x16/x16/x16 or quad x16/x16/x16/x16 or seven x16/x8/x8/x8/x8/x8/x8)

## Storage

**Intel® X99 chipset :** \*<sup>3</sup>

1 x SATA Express port, gray, compatible with 2 x SATA 6.0 Gb/s ports

1 x M.2 x4 Socket 3, gray, , with M Key, type 2260/2280 storage devices support (PCIe mode)

8 x SATA 6Gb/s port(s), gray, \*<sup>4</sup>

Intel® Rapid Storage Technology supports\*<sup>5</sup>

**ASMedia® SATA Express controller :** \*<sup>6</sup>

1 x SATA Express port, gray, compatible with 2 x SATA 6.0 Gb/s ports

**ASMedia® SATA 6Gb/s controller :**

2 x eSATA 6Gb/s port(s) compatible with 2 x SATA 6.0 Gb/s ports

## LAN

Intel® I210-AT, 1 x Gigabit LAN Controller(s)

Intel® I218LM, 1 x Gigabit LAN, Dual interconnect between the Integrated Media Access Controller (MAC) and Physical Layer (PHY)

## Audio

Realtek® ALC1150 8-Channel High Definition Audio CODEC featuring Crystal Sound 2

- Supports : Jack-detection, Multi-streaming, Front Panel

Jack-retasking, Front Panel MIC Jack-retasking

- High quality 109 dB SNR stereo playback output (Line-out at rear) and 104 dB SNR stereo playback input (Line-in)

- High-fidelity audio OP AMP(s)

**Audio Feature :**

- DTS Ultra PC II

- DTS Connect

- Optical S/PDIF out port(s) at back panel

- BD Audio Layer Content Protection

- Audio Shielding: Ensures precision analog/digital separation and greatly reduced multi-lateral interference

- Dedicated audio PCB layers: Separate layers for left and right channels to guard the quality of the sensitive audio signals

- Audio amplifier: Provides the highest-quality sound for headphone and speakers

Premium Japanese-made 12K hours capacitors

- Absolute Pitch 192khz/24bit true BD lossless sound

Separate layer for left and right track, ensuring both sound deliver equal quality

## USB Ports

**Intel® X99 chipset :**

4 x USB 3.0/2.0 port(s) (4 at back panel, , 4 at mid-board)

**Intel® X99 chipset :**

4 x USB 2.0/1.1 port(s) (4 at mid-board)

**ASMedia® USB 3.0 controller : \*7**

2 x USB 3.0/2.0 port(s) (2 at back panel, blue)

**ASMedia® USB 3.0 controller : \*8**

8 x USB 3.0/2.0 port(s) (4 at back panel, , 4 at mid-board)

**Workstation Feature** 7 x PCIe x 16 slot(s)

ASUS Dr. Power

12K hours Capacitors

ProCool Power Connector

Q-Code Logger

**Special Features** 5-Way Optimization by Dual Intelligent Processors 5

- Whole system optimization with a single click! 5-Way Optimization tuning key perfectly consolidates TPU, EPU, DIGI+ Power Control, Fan Xpert 3, and Turbo App together, providing better CPU performance, efficient power saving, precise digital power control, whole system cooling and even tailor your own app usages.

**ASUS TPU :**

- Auto Tuning
- GPU Boost
- TPU switch

**ASUS EPU :**

- EPU
- EPU switch

**ASUS Digital Power Design :**

- Industry leading Digital 8 Phase Power Design
- Industry leading Digital 4 Phase DRAM Power Design
- CPU Power Utility
- DRAM Power Utility

**ASUS Exclusive Features :**

- MemOK!
- AI Suite 3
- Ai Charger+
- USB Charger+
- M.2 & SATA Express
- ASUS UEFI BIOS EZ Mode featuring friendly graphics user interface
- USB 3.0 Boost
- Disk Unlocker
- Turbo LAN
- Crystal Sound 2

**Interactive HomeCloud**

- Media Streamer

**ASUS EZ DIY :**

- Precision Tweaker 2

- ASUS O.C. Tuner
- ASUS CrashFree BIOS
- ASUS EZ Flash
- ASUS USB BIOS Flashback
- ASUS UEFI BIOS EZ Mode
- Push Notice

**ASUS Q-Design :**

- ASUS Q-Shield
- ASUS Q-Code
- ASUS Q-LED (CPU, DRAM, VGA, Boot Device LED)
- ASUS Q-Slot
- ASUS Q-DIMM
- ASUS Q-Connector

**Media Streamer****Special Memory O.C. Design****Turbo App****Fan Xpert 3****Operating System Support** Windows® 8.1

Windows® 8

Windows® 7

**Back I/O Ports** 2 x eSATA  
 2 x LAN (RJ45) port(s)  
 10 x USB 3.0 (blue)  
 1 x Optical S/PDIF out  
 8 x Audio jack(s)  
 1 x USB BIOS Flashback Button(s)  
 1 x Q-Code Logger button

**Internal I/O Ports** 2 x USB 3.0 connector(s) support(s) additional 4 USB 3.0 port(s) (19-pin)  
 2 x USB 2.0 connector(s) support(s) additional 4 USB 2.0 port(s)  
 2 x SATA Express connector: gray, compatible with 2 x SATA 6.0 Gb/s ports  
 1 x M.2 Socket 3 for M Key, type 2260/2280 devices  
 1 x TPM connector(s)  
 8 x SATA 6Gb/s connector(s)  
 1 x CPU Fan connector(s) (1 x 4 -pin)  
 1 x CPU OPT Fan connector(s) (1 x 4 -pin)  
 4 x Chassis Fan connector(s) (4 x -pin)  
 1 x S/PDIF out header(s)  
 1 x Thunderbolt header(s)  
 2 x 8-pin EATX 12 V Power connector  
 1 x 6-pin EATX 12 V\_1 Power connector(s)  
 1 x 24-pin EATX Power connector(s)

1 x 8-pin ATX 12V Power connector(s)  
1 x EZ XMP switch  
1 x Front panel connector(s)  
1 x System panel(s) (Q-Connector)  
1 x DRCT header(s)  
1 x MemOK! button(s)  
1 x Thermal sensor connector(s)  
1 x TPU switch(es)  
1 x CPU/DRAM overvoltage jumper(s)  
1 x Power-on button(s)  
1 x Reset button(s)  
1 x Clear CMOS button(s)  
1 x Dr.Power switch(es)  
1 x 3-pin CHASSIS(Chassis intrusion) connector

## Accessories

User's manual  
ASUS Q-Shield  
1 x COM port cable(s)  
12 x SATA 6Gb/s cable(s)  
1 x 3-Way SLI bridge(s)  
1 x 4-Way SLI bridge(s)  
1 x Q-connector(s) (2 in 1)  
1 x 2-port USB 2.0 module(s)

## BIOS

128 Mb Flash ROM, UEFI AMI BIOS, PnP, DMI2.7, WfM2.0, SM BIOS 2.7, ACPI 5.0, Multi-language BIOS,  
ASUS EZ Flash 2, CrashFree BIOS 3, F11 EZ Tuning Wizard, F6 Qfan Control, F3 My Favorites, Quick Note, Last Modified log,  
F12 PrintScreen, F3 Shortcut functions and ASUS DRAM SPD (Serial Presence Detect) memory information.

## Manageability

WfM 2.0, DMI 2.7, WOL by PME, PXE

## Support Disc

Drivers, ASUS Utilities, EZ Update , Anti-virus software (OEM version)

## Operating System

Windows® 8.1 32/64-bit  
Windows® 8 32/64-bit  
Windows® 7 32/64-bit

## Form Factor

CEB Form Factor  
12 inch x 10.5 inch ( 30.5 cm x 26.7 cm )

## Note

\*1 When installing Intel® Socket 2011-v3 Core™ i7 Processors

- \*2 When installing Intel® Xeon® E5-1600 v3/2600 v3 Processor
- \*3 Intel® X99 Express Chipset with RAID 0, 1, 5, 10 and Intel Rapid Storage Technology 13 support
- \*4 8 x SATA 6.0 Gb/s ports\* (4 x gray from controller 1, 4 x black from controller 2)
- \*5 These functions will work depending on the CPU installed
- \*6 These SATA ports are for data hard drivers only. ATAPI devices are not supported
- \*7 ASMedia® USB 3.0 controller- supports ASUS USB 3.0 Boost
- \*8 ASMedia® USB 3.0 Hubs- supports ASUS USB 3.0 Boost

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